

TWISTER WINGS SAILBOAT

ABSTRACT

Two fixed, tilted-up wings (22) attached at or above the water line along the aft rails of any monohull sailboat (20) will serve the dual functions of being an outboard platform for the crew on the windward side and when the boat heels enough to bring the leeward wing to the water, the design presents the wing at the proper entry as an efficient hydrodynamic lifting body planning the surface. Both wings reacting simultaneously outboard of the hull, one weighted down and one lifting up, produce a magnitude of restoring moments which will accommodate a very large sail area that will increase the potential for high speed sailing, as well as for sailing in lighter winds when both wings are held clear of the water.